

General

AE4470Z-AA3C

Model AE4470Z-AA3C Unit of Measure Fahrenheit
 Condition ARI(R-404A) Voltage/Frequency 115V~60HZ
 RETURN GAS 18.3°C (65°F) RETURN GAS MotorType CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
	80	90	100	110	120	130	140	150	
-10	Btu/h	3830	3480	3150	2800	2420	2000	1520	950
	Watts	512	533	552	568	581	592	599	603
	Amps	5.20	5.36	5.50	5.61	5.70	5.75	5.78	5.77
	Lb/h	44.1	43.6	42.4	40.2	37.1	33.0	27.9	21.5
-5	Btu/h	4320	3940	3580	3210	2820	2380	1890	1320
	Watts	537	560	580	599	615	628	639	646
	Amps	5.38	5.56	5.72	5.86	5.97	6.05	6.10	6.13
	Lb/h	49.9	49.5	48.4	46.5	43.8	40.1	35.5	29.8
0	Btu/h	4860	4450	4050	3650	3230	2780	2260	1680
	Watts	562	587	610	631	650	666	680	691
	Amps	5.57	5.78	5.96	6.12	6.25	6.36	6.45	6.51
	Lb/h	56.3	55.8	54.8	53.1	50.6	47.4	43.2	38.1
5	Btu/h	5460	5000	4560	4120	3670	3190	2650	2040
	Watts	588	615	640	664	686	705	723	737
	Amps	5.77	6.00	6.20	6.39	6.55	6.69	6.81	6.91
	Lb/h	63.2	62.7	61.7	60.1	57.9	54.9	51.1	46.5
10	Btu/h	6110	5600	5110	4630	4140	3610	3040	2410
	Watts	614	643	671	697	722	745	766	784
	Amps	5.97	6.22	6.45	6.67	6.86	7.03	7.19	7.32
	Lb/h	71.0	70.3	69.2	67.6	65.5	62.8	59.3	55.1
15	Btu/h	6820	6250	5700	5170	4630	4060	3450	2780
	Watts	639	671	701	731	759	785	810	833
	Amps	6.18	6.45	6.71	6.95	7.18	7.39	7.58	7.75
	Lb/h	79.5	78.6	77.4	75.8	73.7	71.1	67.9	64.0
20	Btu/h	7590	6950	6340	5750	5150	4530	3870	3160
	Watts	665	699	732	765	796	826	855	881
	Amps	6.38	6.68	6.97	7.24	7.50	7.74	7.97	8.18
	Lb/h	89.0	87.8	86.3	84.6	82.6	80.0	77.0	73.4
25	Btu/h	8430	7710	7030	6360	5700	5020	4310	3540
	Watts	690	726	763	799	834	867	900	931
	Amps	6.58	6.91	7.22	7.53	7.82	8.10	8.37	8.62
	Lb/h	99.5	97.9	96.2	94.3	92.1	89.6	86.6	83.2
30	Btu/h	9330	8520	7760	7020	6280	5540	4760	3930
	Watts	714	753	793	832	871	909	945	981
	Amps	6.77	7.13	7.48	7.82	8.15	8.47	8.77	9.07
	Lb/h	111	109	107	105	102	99.8	96.9	93.6
35	Btu/h	10300	9390	8540	7710	6900	6080	5230	4340
	Watts	737	780	823	865	908	950	991	1030
	Amps	6.95	7.34	7.73	8.10	8.47	8.83	9.18	9.52
	Lb/h	124	121	119	116	114	111	108	105
40	Btu/h	11300	10300	9370	8450	7550	6650	5720	4750
	Watts	760	806	852	898	944	991	1040	1080
	Amps	7.12	7.55	7.96	8.37	8.78	9.18	9.58	9.96
	Lb/h	138	135	132	129	126	123	120	117
45	Btu/h	12400	11300	10300	9240	8240	7250	6230	5190
	Watts	781	830	880	930	980	1030	1080	1130
	Amps	7.28	7.74	8.19	8.64	9.09	9.53	9.97	10.4
	Lb/h	153	149	146	142	139	136	133	129
50	Btu/h	13600	12400	11200	10100	8970	7880	6770	5630
	Watts	801	853	907	961	1020	1070	1130	1180
	Amps	7.42	7.91	8.40	8.89	9.38	9.87	10.4	10.8
	Lb/h	170	166	161	157	154	150	146	143
55	Btu/h	14800	13500	12200	11000	9750	8540	7330	6100
	Watts	820	875	933	991	1050	1110	1170	1230
	Amps	7.53	8.06	8.59	9.13	9.66	10.2	10.7	11.3
	Lb/h	189	183	178	174	169	165	161	158

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.088377E+04	3.384425E+02	3.162733E+00	4.764032E+01
C2	2.119103E+02	3.801142E+00	2.161912E-02	2.093235E+00

C3	-1.270216E+02	2.770380E+00	3.826450E-02	1.508460E-01
C4	2.333738E+00	-1.689058E-02	-1.083542E-04	2.473833E-02
C5	-1.564234E+00	-5.723329E-03	3.960243E-05	-1.720254E-02
C6	8.851600E-01	3.963783E-03	-9.701759E-05	4.819441E-04
C7	2.295198E-03	-2.478791E-04	-3.668593E-06	1.206682E-04
C8	-1.548396E-02	2.859286E-04	3.103115E-06	-1.478854E-04
C9	4.244005E-03	2.742610E-04	2.234041E-06	9.574259E-05
C10	-2.983043E-03	-4.515453E-05	-6.109282E-08	-1.275751E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AE4470Z-AA3C

General

Performance Data Sheet

Model AE4470Z-AA3C **Unit of Measure** Celsius
Condition ASHRAE(R-404A) **Voltage/Frequency** 115V~ 60HZ
RETURN GAS 35°C (95°F) RETURN GAS **MotorType** CSR

Performance Information

EVAP TEMP (°C)	Condensing Temperature (°C)						
	30	35	40	45	50	55	60
-25	Btu/h	3710	3390				
	Watts (Power)	508	525				
	Amps	5.20	5.32				
	Lb/h	45.0	44.0				
-23.3	Btu/h	4000	3670				
	Watts (Power)	523	541				
	Amps	5.30	5.44				
	Lb/h	48.7	47.8				
-20	Btu/h	4620	4260	3890	3510		
	Watts (Power)	554	574	592	609		
	Amps	5.52	5.68	5.82	5.94		
	Lb/h	56.3	55.5	54.1	52.0		
-15	Btu/h	5720	5270	4840	4400	3950	3460
	Watts (Power)	602	626	648	669	688	705
	Amps	5.89	6.08	6.26	6.42	6.56	6.69
	Lb/h	69.5	68.8	67.5	65.7	63.3	60.2
-10	Btu/h	6990	6450	5930	5410	4880	4320
	Watts (Power)	651	678	705	730	755	778
	Amps	6.28	6.51	6.73	6.94	7.13	7.31
	Lb/h	85.3	84.2	82.9	81.2	79.0	76.3
-6.7	Btu/h	7940	7320	6730	6140	5540	4920
	Watts (Power)	683	713	743	772	800	826
	Amps	6.54	6.80	7.05	7.29	7.52	7.74
	Lb/h	97.3	96.0	94.5	92.6	90.5	87.9
-5	Btu/h	8460	7800	7160	6530	5900	5250
	Watts (Power)	699	731	762	793	823	852
	Amps	6.67	6.95	7.22	7.48	7.72	7.96
	Lb/h	104	103	101	99.0	96.8	94.3
0	Btu/h	10100	9340	8560	7790	7030	6260
	Watts (Power)	746	782	819	855	891	926
	Amps	7.05	7.38	7.70	8.01	8.32	8.62
	Lb/h	127	124	122	120	117	115
5	Btu/h	12000	11100	10100	9200	8280	7360
	Watts (Power)	790	832	874	916	958	1000
	Amps	7.39	7.77	8.15	8.53	8.90	9.26
	Lb/h	153	150	147	144	141	138
7.2	Btu/h	13000	11900	10900	9860	8870	7880
	Watts (Power)	808	852	897	942	988	1030
	Amps	7.53	7.94	8.34	8.75	9.14	9.54
	Lb/h	166	163	159	156	153	150
10	Btu/h	14200	13000	11900	10800	9660	8580
	Watts (Power)	830	878	926	975	1020	1070
	Amps	7.69	8.13	8.57	9.01	9.45	9.89
	Lb/h	185	180	176	172	169	165
15	Btu/h	16500	15100	13800	12500	11200	9900
	Watts (Power)	866	919	974	1030	1090	1140
	Amps	7.92	8.42	8.93	9.44	9.95	10.5
	Lb/h	221	216	210	205	201	196

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.644665E+04	5.353660E+02	4.949389E+00	1.429819E+02
C2	5.779268E+02	4.791814E+00	2.448766E-02	6.540005E+00
C3	-2.714907E+02	6.486351E+00	7.325534E-02	-7.252639E-01
C4	7.363461E+00	-1.009866E-01	-1.176938E-03	1.129858E-01
C5	-8.166467E+00	9.627495E-02	1.216415E-03	-7.335892E-02
C6	2.622453E+00	2.490978E-02	-9.949378E-05	8.370467E-03

C7	1.478022E-02	-1.459626E-03	-2.324145E-05	7.602521E-04
C8	-9.970001E-02	1.629235E-03	1.814490E-05	-9.545116E-04
C9	2.732299E-02	1.598034E-03	1.313057E-05	6.153143E-04
C10	-1.916872E-02	-2.463761E-04	-3.707696E-07	-8.258346E-05

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AE4470Z-AA3C

General

Performance Data Sheet

Model AE4470Z-AA3C **Unit of Measure** Fahrenheit
Condition ASHRAE(R-404A) **Voltage/Frequency** 115V~ 60HZ
RETURN GAS 35°C (95°F) RETURN GAS **MotorType** CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)				
	90	100	110	120	130 140
-10	Btu/h	3850			
	Watts	531			
	Amps	5.36			
	Lb/h	48.3			
-5	Btu/h	4350	3950		
	Watts	558	579		
	Amps	5.56	5.72		
	Lb/h	54.7	53.5		
0	Btu/h	4910	4470	4030	
	Watts	585	608	629	
	Amps	5.76	5.94	6.10	
	Lb/h	61.7	60.5	58.6	
5	Btu/h	5520	5030	4550	4050
	Watts	613	638	662	684
	Amps	5.98	6.18	6.37	6.53
	Lb/h	69.2	68.1	66.3	63.9
10	Btu/h	6180	5640	5110	4560 3990
	Watts	641	669	695	720 743
	Amps	6.20	6.43	6.65	6.84 7.01
	Lb/h	77.6	76.4	74.7	72.3 69.3
15	Btu/h	6900	6300	5710	5110 4480 3810
	Watts	669	699	729	757 783 808
	Amps	6.43	6.69	6.93	7.15 7.36 7.55
	Lb/h	86.8	85.4	83.6	81.4 78.5 75.0
20	Btu/h	7670	7000	6340	5680 5000 4270
	Watts	697	730	762	794 824 852
	Amps	6.66	6.94	7.22	7.47 7.72 7.94
	Lb/h	96.9	95.3	93.4	91.1 88.3 85.0
25	Btu/h	8510	7750	7020	6290 5540 4750
	Watts	724	760	796	831 865 898
	Amps	6.89	7.20	7.51	7.80 8.08 8.34
	Lb/h	108	106	104	102 98.9 95.6
30	Btu/h	9400	8560	7740	6930 6110 5250
	Watts	751	791	830	868 906 943
	Amps	7.11	7.45	7.79	8.12 8.44 8.74
	Lb/h	120	118	116	113 110 107
35	Btu/h	10400	9420	8510	7620 6710 5770
	Watts	778	820	863	905 947 988
	Amps	7.32	7.70	8.07	8.44 8.80 9.15
	Lb/h	134	131	128	125 122 119
40	Btu/h	11400	10300	9330	8340 7340 6310
	Watts	803	849	896	942 988 1030
	Amps	7.52	7.94	8.35	8.75 9.15 9.55
	Lb/h	149	145	142	139 136 132
45	Btu/h	12500	11300	10200	9100 8000 6880
	Watts	828	877	927	978 1030 1080
	Amps	7.71	8.16	8.61	9.06 9.50 9.94
	Lb/h	165	161	157	154 150 146
50	Btu/h	13600	12400	11100	9910 8700 7470
	Watts	851	904	958	1010 1070 1120
	Amps	7.88	8.37	8.86	9.35 9.84 10.3
	Lb/h	183	178	174	170 166 162
55	Btu/h	14900	13500	12100	10800 9430 8090
	Watts	873	930	988	1050 1110 1170
	Amps	8.04	8.57	9.10	9.63 10.2 10.7
	Lb/h	202	197	192	187 182 178

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.200576E+04	3.326783E+02	3.149501E+00	5.287324E+01
C2	2.338575E+02	3.789648E+00	2.127201E-02	2.299222E+00
C3	-1.399871E+02	2.877872E+00	3.824793E-02	1.612364E-01
C4	2.576538E+00	-1.608032E-02	-8.023387E-05	2.759343E-02
C5	-1.726327E+00	-5.700952E-03	3.222023E-05	-1.891818E-02
C6	9.750553E-01	2.975281E-03	-9.664610E-05	5.666346E-04
C7	2.534444E-03	-2.502616E-04	-3.984882E-06	1.303507E-04
C8	-1.709607E-02	2.793414E-04	3.111062E-06	-1.636581E-04
C9	4.685210E-03	2.739922E-04	2.251318E-06	1.055003E-04
C10	-3.286959E-03	-4.224283E-05	-6.356859E-08	-1.415956E-05

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AE4470Z-AA3C

General

Performance Data Sheet

Model AE4470Z-AA3C **Unit of Measure** Fahrenheit
Condition ASHRAE(R-448A) **Voltage/Frequency** 115V~ 60HZ
RETURN GAS 35°C (95°F) RETURN GAS **MotorType** CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)				
	90	100	110	120	130 140
-10	Btu/h	3790			
	Watts	481			
	Amps	4.78			
	Lb/h	35.7			
-5	Btu/h	4290	3890		
	Watts	505	524		
	Amps	4.96	5.11		
	Lb/h	40.5	39.6		
0	Btu/h	4840	4400	3970	
	Watts	530	551	570	
	Amps	5.15	5.31	5.46	
	Lb/h	45.7	44.8	43.4	
5	Btu/h	5440	4960	4480	3990
	Watts	555	578	600	619
	Amps	5.35	5.53	5.70	5.84
	Lb/h	51.3	50.5	49.2	47.3
10	Btu/h	6090	5560	5030	4500 3930
	Watts	580	606	630	652 673
	Amps	5.55	5.76	5.95	6.12 6.27
	Lb/h	57.5	56.6	55.3	53.6 51.4
15	Btu/h	6800	6200	5620	5030 4420 3750
	Watts	606	633	660	685 709 732
	Amps	5.75	5.98	6.20	6.40 6.59 6.76
	Lb/h	64.3	63.3	62.0	60.3 58.2 55.6
20	Btu/h	7560	6900	6250	5600 4920 4210
	Watts	631	661	691	719 746 772
	Amps	5.96	6.21	6.46	6.69 6.91 7.11
	Lb/h	71.8	70.6	69.2	67.5 65.5 63.0
25	Btu/h	8380	7640	6920	6200 5460 4680
	Watts	656	689	721	753 783 813
	Amps	6.16	6.44	6.72	6.98 7.23 7.47
	Lb/h	80.1	78.7	77.1	75.3 73.3 70.9
30	Btu/h	9260	8430	7630	6830 6020 5170
	Watts	680	716	752	786 821 854
	Amps	6.36	6.67	6.97	7.27 7.55 7.83
	Lb/h	89.2	87.5	85.7	83.8 81.7 79.3
35	Btu/h	10200	9280	8390	7500 6610 5690
	Watts	704	743	782	820 858 895
	Amps	6.55	6.89	7.22	7.55 7.87 8.18
	Lb/h	99.2	97.1	95.1	93.0 90.7 88.3
40	Btu/h	11200	10200	9190	8210 7230 6220
	Watts	728	769	811	853 895 936
	Amps	6.73	7.10	7.47	7.83 8.19 8.54
	Lb/h	110	108	105	103 101 98.0
45	Btu/h	12300	11200	10000	8960 7880 6780
	Watts	750	795	840	886 931 977
	Amps	6.90	7.30	7.71	8.10 8.50 8.89
	Lb/h	122	119	117	114 111 109
50	Btu/h	13400	12200	11000	9760 8570 7360
	Watts	771	819	868	917 967 1020
	Amps	7.05	7.49	7.93	8.37 8.80 9.24
	Lb/h	135	132	129	126 123 120
55	Btu/h	14700	13300	11900	10600 9290 7970
	Watts	791	842	895	948 1000 1060
	Amps	7.19	7.67	8.14	8.62 9.09 9.57
	Lb/h	150	146	142	138 135 132

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.183502E+04	3.056578E+02	2.820894E+00	3.897460E+01
C2	2.304321E+02	3.433010E+00	1.928362E-02	1.712475E+00
C3	-1.381234E+02	2.502022E+00	3.412883E-02	1.234083E-01
C4	2.537710E+00	-1.525634E-02	-9.666871E-05	2.023857E-02
C5	-1.700955E+00	-5.169075E-03	3.532000E-05	-1.407345E-02
C6	9.625237E-01	3.579818E-03	-8.653113E-05	3.942768E-04
C7	2.495760E-03	-2.238486E-04	-3.271939E-06	9.871715E-05
C8	-1.683724E-02	2.582296E-04	2.767804E-06	-1.209845E-04
C9	4.614934E-03	2.476956E-04	1.992570E-06	7.832700E-05
C10	-3.243763E-03	-4.078063E-05	-5.449038E-08	-1.043692E-05

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AE4470Z-AA3C

General

Performance Data Sheet

Model AE4470Z-AA3C **Unit of Measure** Fahrenheit
Condition ASHRAE(R-449A) **Voltage/Frequency** 115V~ 60HZ
RETURN GAS 35°C (95°F) RETURN GAS **MotorType** CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)				
	90	100	110	120	130 140
-10	Btu/h	3790			
	Watts	481			
	Amps	4.78			
	Lb/h	35.7			
-5	Btu/h	4290	3890		
	Watts	505	524		
	Amps	4.96	5.11		
	Lb/h	40.5	39.6		
0	Btu/h	4840	4400	3970	
	Watts	530	551	570	
	Amps	5.15	5.31	5.46	
	Lb/h	45.7	44.8	43.4	
5	Btu/h	5440	4960	4480	3990
	Watts	555	578	600	619
	Amps	5.35	5.53	5.70	5.84
	Lb/h	51.3	50.5	49.2	47.3
10	Btu/h	6090	5560	5030	4500 3930
	Watts	580	606	630	652 673
	Amps	5.55	5.76	5.95	6.12 6.27
	Lb/h	57.5	56.6	55.3	53.6 51.4
15	Btu/h	6800	6200	5620	5030 4420 3750
	Watts	606	633	660	685 709 732
	Amps	5.75	5.98	6.20	6.40 6.59 6.76
	Lb/h	64.3	63.3	62.0	60.3 58.2 55.6
20	Btu/h	7560	6900	6250	5600 4920 4210
	Watts	631	661	691	719 746 772
	Amps	5.96	6.21	6.46	6.69 6.91 7.11
	Lb/h	71.8	70.6	69.2	67.5 65.5 63.0
25	Btu/h	8380	7640	6920	6200 5460 4680
	Watts	656	689	721	753 783 813
	Amps	6.16	6.44	6.72	6.98 7.23 7.47
	Lb/h	80.1	78.7	77.1	75.3 73.3 70.9
30	Btu/h	9260	8430	7630	6830 6020 5170
	Watts	680	716	752	786 821 854
	Amps	6.36	6.67	6.97	7.27 7.55 7.83
	Lb/h	89.2	87.5	85.7	83.8 81.7 79.3
35	Btu/h	10200	9280	8390	7500 6610 5690
	Watts	704	743	782	820 858 895
	Amps	6.55	6.89	7.22	7.55 7.87 8.18
	Lb/h	99.2	97.1	95.1	93.0 90.7 88.3
40	Btu/h	11200	10200	9190	8210 7230 6220
	Watts	728	769	811	853 895 936
	Amps	6.73	7.10	7.47	7.83 8.19 8.54
	Lb/h	110	108	105	103 101 98.0
45	Btu/h	12300	11200	10000	8960 7880 6780
	Watts	750	795	840	886 931 977
	Amps	6.90	7.30	7.71	8.10 8.50 8.89
	Lb/h	122	119	117	114 111 109
50	Btu/h	13400	12200	11000	9760 8570 7360
	Watts	771	819	868	917 967 1020
	Amps	7.05	7.49	7.93	8.37 8.80 9.24
	Lb/h	135	132	129	126 123 120
55	Btu/h	14700	13300	11900	10600 9290 7970
	Watts	791	842	895	948 1000 1060
	Amps	7.19	7.67	8.14	8.62 9.09 9.57
	Lb/h	150	146	142	138 135 132

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.183502E+04	3.056578E+02	2.820894E+00	3.897460E+01
C2	2.304321E+02	3.433010E+00	1.928362E-02	1.712475E+00
C3	-1.381234E+02	2.502022E+00	3.412883E-02	1.234083E-01
C4	2.537710E+00	-1.525634E-02	-9.666871E-05	2.023857E-02
C5	-1.700955E+00	-5.169075E-03	3.532000E-05	-1.407345E-02
C6	9.625237E-01	3.579818E-03	-8.653113E-05	3.942768E-04
C7	2.495760E-03	-2.238486E-04	-3.271939E-06	9.871715E-05
C8	-1.683724E-02	2.582296E-04	2.767804E-06	-1.209845E-04
C9	4.614934E-03	2.476956E-04	1.992570E-06	7.832700E-05
C10	-3.243763E-03	-4.078063E-05	-5.449038E-08	-1.043692E-05

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AE4470Z-AA3C

General

Performance Data Sheet

Model AE4470Z-AA3C **Unit of Measure** Fahrenheit
Condition ASHRAE(R-452A) **Voltage/Frequency** 115V~ 60HZ
RETURN GAS 35°C (95°F) RETURN GAS **MotorType** CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)				
	90	100	110	120	130 140
-10	Btu/h	3660			
	Watts	506			
	Amps	5.12			
	Lb/h	44.5			
-5	Btu/h	4140	3760		
	Watts	531	551		
	Amps	5.31	5.47		
	Lb/h	50.5	49.3		
0	Btu/h	4670	4250	3830	
	Watts	557	579	599	
	Amps	5.52	5.69	5.84	
	Lb/h	56.9	55.9	54.1	
5	Btu/h	5250	4790	4330	3850
	Watts	584	608	630	651
	Amps	5.73	5.92	6.10	6.26
	Lb/h	64.0	62.9	61.3	59.0
10	Btu/h	5880	5360	4860	4340 3790
	Watts	610	637	662	686 708
	Amps	5.94	6.16	6.37	6.55 6.72
	Lb/h	71.7	70.6	69.0	66.8 64.0
15	Btu/h	6560	5990	5430	4860 4260 3620
	Watts	637	666	694	721 746 769
	Amps	6.16	6.41	6.64	6.85 7.05 7.23
	Lb/h	80.1	78.9	77.3	75.2 72.5 69.3
20	Btu/h	7300	6660	6030	5400 4750 4060
	Watts	663	695	726	756 785 812
	Amps	6.38	6.65	6.91	7.16 7.39 7.61
	Lb/h	89.5	88.0	86.3	84.2 81.6 78.5
25	Btu/h	8090	7370	6680	5980 5270 4520
	Watts	690	724	758	792 824 855
	Amps	6.60	6.90	7.19	7.47 7.74 7.99
	Lb/h	99.8	98.0	96.1	93.9 91.3 88.3
30	Btu/h	8940	8140	7360	6590 5810 4990
	Watts	715	753	790	827 863 898
	Amps	6.81	7.14	7.46	7.78 8.08 8.38
	Lb/h	111	109	107	104 102 98.8
35	Btu/h	9860	8960	8100	7240 6380 5490
	Watts	741	781	822	862 902 941
	Amps	7.01	7.38	7.73	8.08 8.43 8.76
	Lb/h	124	121	118	116 113 110
40	Btu/h	10800	9830	8870	7930 6980 6000
	Watts	765	809	853	897 941 984
	Amps	7.21	7.60	8.00	8.38 8.77 9.14
	Lb/h	137	134	131	128 125 122
45	Btu/h	11900	10800	9700	8650 7610 6540
	Watts	788	835	883	931 979 1030
	Amps	7.39	7.82	8.25	8.68 9.10 9.52
	Lb/h	152	149	145	142 139 135
50	Btu/h	13000	11800	10600	9420 8270 7110
	Watts	810	861	913	964 1020 1070
	Amps	7.55	8.02	8.49	8.96 9.42 9.89
	Lb/h	169	164	160	157 153 149
55	Btu/h	14100	12800	11500	10200 8970 7700
	Watts	831	886	941	997 1050 1110
	Amps	7.70	8.21	8.71	9.22 9.73 10.2
	Lb/h	187	182	177	173 168 165

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.142304E+04	3.213763E+02	3.020038E+00	4.857291E+01
C2	2.224094E+02	3.609679E+00	2.064278E-02	2.134225E+00
C3	-1.333153E+02	2.630721E+00	3.653799E-02	1.537882E-01
C4	2.449386E+00	-1.604270E-02	-1.034428E-04	2.522201E-02
C5	-1.641739E+00	-5.435372E-03	3.781777E-05	-1.753922E-02
C6	9.290183E-01	3.763905E-03	-9.264057E-05	4.914639E-04
C7	2.408809E-03	-2.353532E-04	-3.503271E-06	1.230343E-04
C8	-1.625119E-02	2.715151E-04	2.963096E-06	-1.507799E-04
C9	4.454303E-03	2.604355E-04	2.133231E-06	9.761639E-05
C10	-3.130850E-03	-4.287807E-05	-5.833363E-08	-1.300744E-05

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature

AE4470Z-AA3C

General

Performance Data Sheet

Model AE4470Z-AA3C **Unit of Measure** Fahrenheit
Condition EN12900(R-404A) **Voltage/Frequency** 115V~ 60HZ
RETURN GAS 20°C (68°F) RETURN GAS **MotorType** CSR

Performance Information

EVAP TEMP (°F)	Condensing Temperature (°F)								
	80	90	100	110	120	130	140	150	
5	Btu/h	4580	4180	3780	3370	2940	2510	2060	1590
	Watts	612	637	664	690	713	731	740	739
	Amps	7.57	7.66	7.77	7.88	7.98	8.04	8.06	8.00
	Lb/h	70.9	68.6	66.0	63.1	60.0	56.4	52.5	48.1
10	Btu/h	5170	4730	4290	3840	3390	2920	2430	1930
	Watts	631	660	691	722	750	773	788	794
	Amps	7.65	7.75	7.88	8.02	8.14	8.23	8.28	8.27
	Lb/h	80.1	77.8	75.2	72.3	69.1	65.6	61.7	57.3
15	Btu/h	5800	5330	4850	4350	3850	3340	2810	2260
	Watts	647	680	716	752	785	814	836	848
	Amps	7.72	7.85	7.99	8.15	8.30	8.43	8.52	8.54
	Lb/h	90.3	87.8	85.2	82.2	79.0	75.4	71.4	67.0
20	Btu/h	6500	5980	5440	4900	4350	3780	3200	2600
	Watts	662	699	739	780	819	854	882	901
	Amps	7.79	7.93	8.10	8.29	8.47	8.63	8.75	8.82
	Lb/h	102	98.9	96.1	93.1	89.7	86.0	81.9	77.4
25	Btu/h	7270	6690	6090	5490	4880	4250	3610	2940
	Watts	673	715	760	806	851	892	926	953
	Amps	7.85	8.01	8.21	8.42	8.63	8.82	8.98	9.09
	Lb/h	114	111	108	105	102	97.6	93.4	88.6
30	Btu/h	8110	7460	6800	6130	5440	4750	4040	3310
	Watts	682	728	778	830	880	927	969	1000
	Amps	7.90	8.08	8.30	8.54	8.78	9.01	9.21	9.37
	Lb/h	128	125	122	118	114	110	106	101
35	Btu/h	9020	8300	7560	6810	6060	5280	4490	3690
	Watts	687	738	793	850	907	960	1010	1050
	Amps	7.93	8.13	8.38	8.65	8.92	9.19	9.43	9.63
	Lb/h	144	140	137	133	129	124	120	114
40	Btu/h	10000	9210	8390	7560	6720	5860	4990	4090
	Watts	689	745	805	868	930	991	1050	1090
	Amps	7.95	8.17	8.44	8.74	9.05	9.36	9.64	9.89
	Lb/h	161	157	153	149	145	140	135	129
45	Btu/h	11100	10200	9290	8370	7430	6480	5520	4530
	Watts	686	747	813	881	950	1020	1080	1140
	Amps	7.94	8.19	8.49	8.82	9.16	9.51	9.84	10.1
	Lb/h	180	176	172	167	162	157	151	145
50	Btu/h	12300	11300	10300	9250	8210	7160	6090	5000
	Watts	679	745	816	891	967	1040	1110	1170
	Amps	7.91	8.18	8.51	8.88	9.26	9.65	10.0	10.4
	Lb/h	201	197	192	187	181	176	170	163
55	Btu/h	13600	12400	11300	10200	9050	7890	6720	5520
	Watts	666	738	815	896	978	1060	1140	1210
	Amps	7.85	8.15	8.51	8.91	9.33	9.76	10.2	10.6
	Lb/h	225	220	214	209	203	197	190	183

	COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	7.106226E+03	7.424786E+02	9.514695E+00	8.017505E+01	
C2	1.355544E+02	1.639651E+00	2.296962E-02	1.538416E+00	
C3	-4.181252E+01	-8.323656E+00	-7.535034E-02	-2.640695E-01	
C4	2.197256E+00	-5.090829E-02	-1.707413E-04	2.202413E-02	
C5	-3.917431E-01	-3.834505E-03	-3.948771E-04	5.708570E-04	
C6	7.470658E-02	1.120034E-01	8.548160E-04	1.228569E-03	
C7	7.079433E-03	-5.023793E-04	-3.813494E-06	2.160462E-04	
C8	-1.623772E-02	3.432833E-04	2.601810E-06	-1.203615E-04	
C9	-3.342928E-04	4.430967E-04	3.871737E-06	5.201048E-06	
C10	-3.745860E-04	-3.940017E-04	-2.874084E-06	-8.580169E-06	

$$\text{Value} = C1 + C2 * \text{Te} + C4 * \text{Te}^2 + C7 * \text{Te}^3 + (C3 + C5 * \text{Te} + C8 * \text{Te}^2) * \text{Tc} + (C6 + C9 * \text{Te}) * \text{Tc}^2 + C10 * \text{Tc}^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature